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(71) Applicant (for all designated States except US): MED-VET SCIENCE PTY LTD [AU/AU]; Intellectual Property &amp; Commercialisation Office, Level 3, Hansen Institute/IMVS 5th Building, Frome Road, Adelaide, South Australia 5000 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): GUTHRIDGE, Mark [AU/AU]; 7 Elizabeth Mews, Brompton, South

Australia 5067 (AU). RAMSHAW, Hayley [AU/AU]; 2 Pistrina Court, Adelaide, South Australia 5000 (AU). STOMSKI, Frank [AU/AU]; 12 Cameron Court, Redwood Park, South Australia 5097 (AU). FELQUER, Fernando [AU/AU]; 1/19 Smart Road, Modbury, South Australia 5092 (AU). LOPEZ, Angel [AU/AU]; 15 Arthur Street, Medindie, South Australia 5081 (AU).

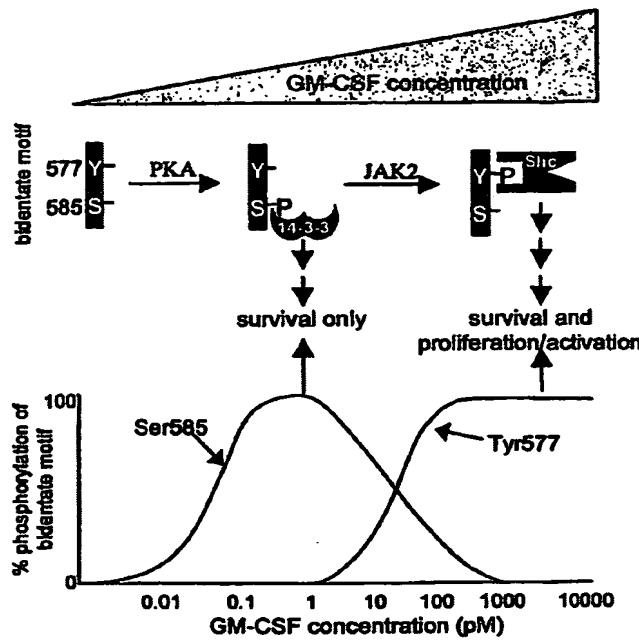
(74) Agent: PHILLIPS ORMONDE &amp; FITZPATRICK; 367 Collins Street, Melbourne, Victoria 3000 (AU).

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(54) Title: A BIDENTATE MOTIF AND METHODS OF USE



(57) **Abstract:** The present invention relates to a novel bidentate motif that is composed of two adjacent residues of tyrosine and serine which have been found to be involved in the binding of crucial cytoplasmic proteins which are involved in cell signalling pathways. In some cases, the cytoplasmic proteins are ubiquitous proteins involved in cell signalling pathways that may include mitogenesis, transformation and survival. The bidentate motif may have a sequence alignment N-X-X-Y-(X)<sub>1-13</sub>-(R/K/H/Q)-(X/V)<sub>2-3</sub>-S/T-X-P; Y-(X)<sub>1-16</sub>-(R/K/H/Q)-(X/V)<sub>2-3</sub>-S/T-X-P; or N-X-X-Y-(X)<sub>1-30</sub>-(R/K/Q/H)-(X)<sub>1-4</sub>-(S/T)-X-P wherein X is any residue, Y is tyrosine, S/T is serine or threonine and R/K/H/Q/V is a hydrophobic residue or an equivalent thereof. Preferably the residues are Tyr577 and Ser585 of the common  $\beta$ c of the GM-CSF/IL-5/IL-3 receptor.

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